Public Service Company of Colorado

16805 ROAD 19½
PLATTEVILLE, COLORADO 80651

May 22, 1981
Fort St. Vrain
Unit No. 1
P-81150

Mr. Karl V. Seyfrit, Director
Nuclear Regulatory Commission
Region IV
Office of Inspection and Enforcement
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76012

Reference: Facility Operating License
No. DPR-34

Docket No. 50-267

Dear Mr. Seyfrit:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/81-030, Preliminary, submitted per the requirements of Technical Specification AC 7.5.2(b)1 and AC 7.5.2(b)2.

Also, please find enclosed one copy of the Licensee Event Report for Reportable Occurrence Report No. 50-267/81-030.

Very truly yours,

Don Warembourg
Manager, Nuclear Production

DW/cls

Enclosure

cc: Director, MIPC

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OCCURRENCE REPORT DISTRIBUTION

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FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
16805 WELD COUNTY ROAD 19 1/2
PLATTEVILLE, COLORADO 80651

REPORT NO. 50-267/81-030/03-L-0

Preliminary

IDENTIFICATION OF OCCURRENCE:

Testing of the primary coolant programmed pressure scram revealed that two of the pressure transmitters were out of calibration and could have allowed operation with trip setpoints less conservative than required by LCO 4.4.1, Table 4.4-1.

This is reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)1 and AC 7.5.2(b)2.

EVENT DESCRIPTION:

See Figure 1. While performing the monthly calibration check of the primary coolant pressure scram channels, plant instrument personnel observed that two of the pressure transmitters (1) were out of calibration in the nonconservative direction and would have resulted in the pressure switch highs (2) tripping at a higher pressure than allowed by LCO requirements. The low readings of the pressure transmitters (1) would have caused the pressure switch lows (3) to trip sooner at a higher, more conservative pressure than required.

The high and low pressure trips (2) and (3) are programmed by circulator inlet temperature through an auctioneer circuit (4) and a bistable setpoint programmer (5) or (6) . The programmed pressure temperature curve is shown in Figure 2. The low outpoint signal from the pressure transmitter could have resulted in the high pressure trips occurring above the allowable high pressure curve (line (A)(A)). The low pressure trips would have occurred above low pressure trip curve (line (B)(B)) in a conservative direction.

Although the high pressure trips could have occurred at a value less conservative than that established in the Technical Specifications, they would not prevent the fulfillment of the functional requirements of the systems.

|mtext
CAUSE
DESCRIPTION:

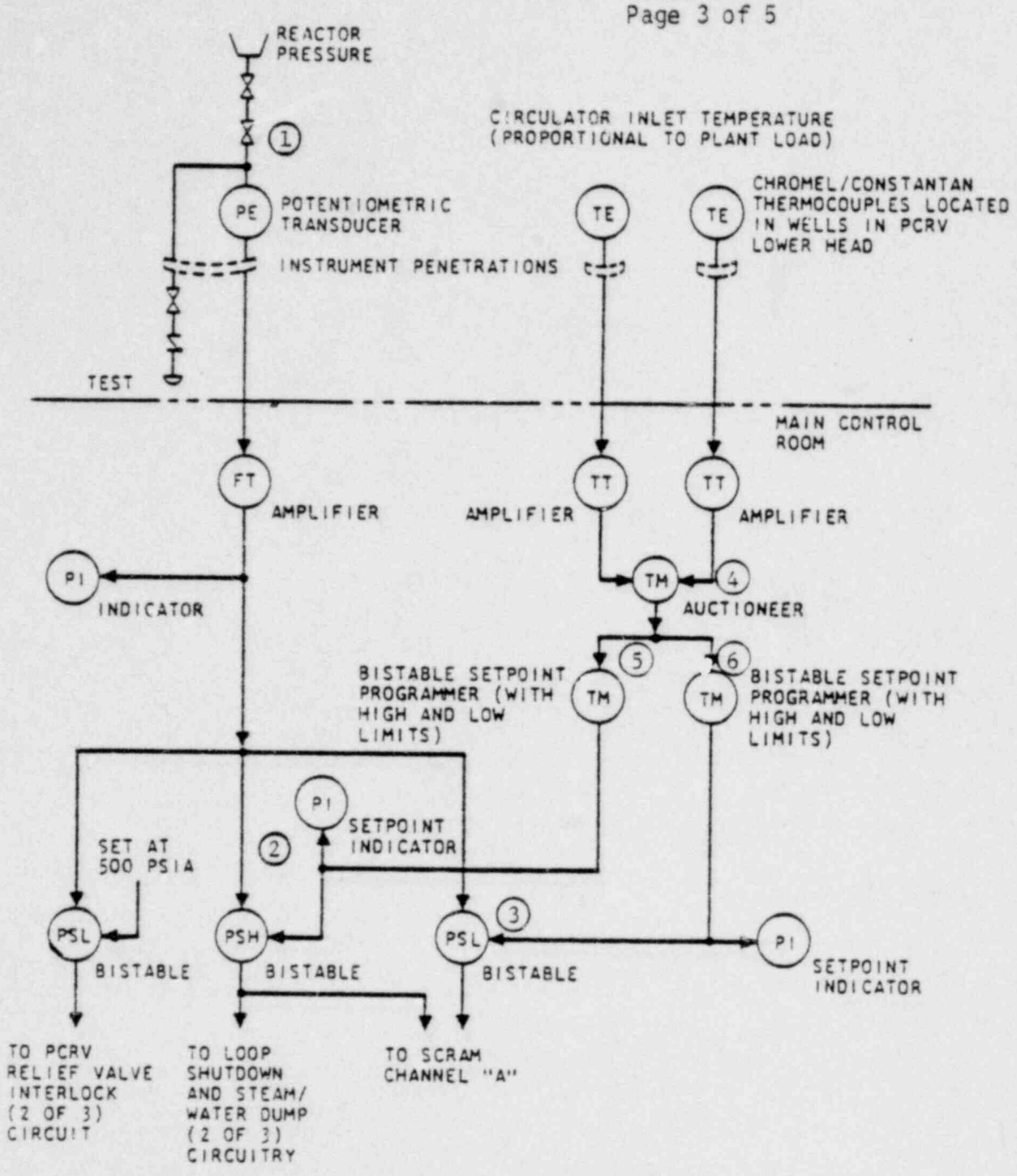
The low pressure signals were due to instrument drift of the pressure transmitter.

CORRECTIVE
ACTION

The pressure transmitters were calibrated during the procedure and returned to service.

Once a month, on a temporary basis, the pressure transmitter voltage outputs will be checked against reactor pressure to determine if further instrument drift is occurring. The monthly test will be conducted until the next regularly scheduled surveillance calibration is required or until it is determined that instrument drift is not occurring.

The results will be included in a future supplement report.



Reactor pressure instrument channel (typ. for channels B&C)

FIGURE 1

FIGURE 2

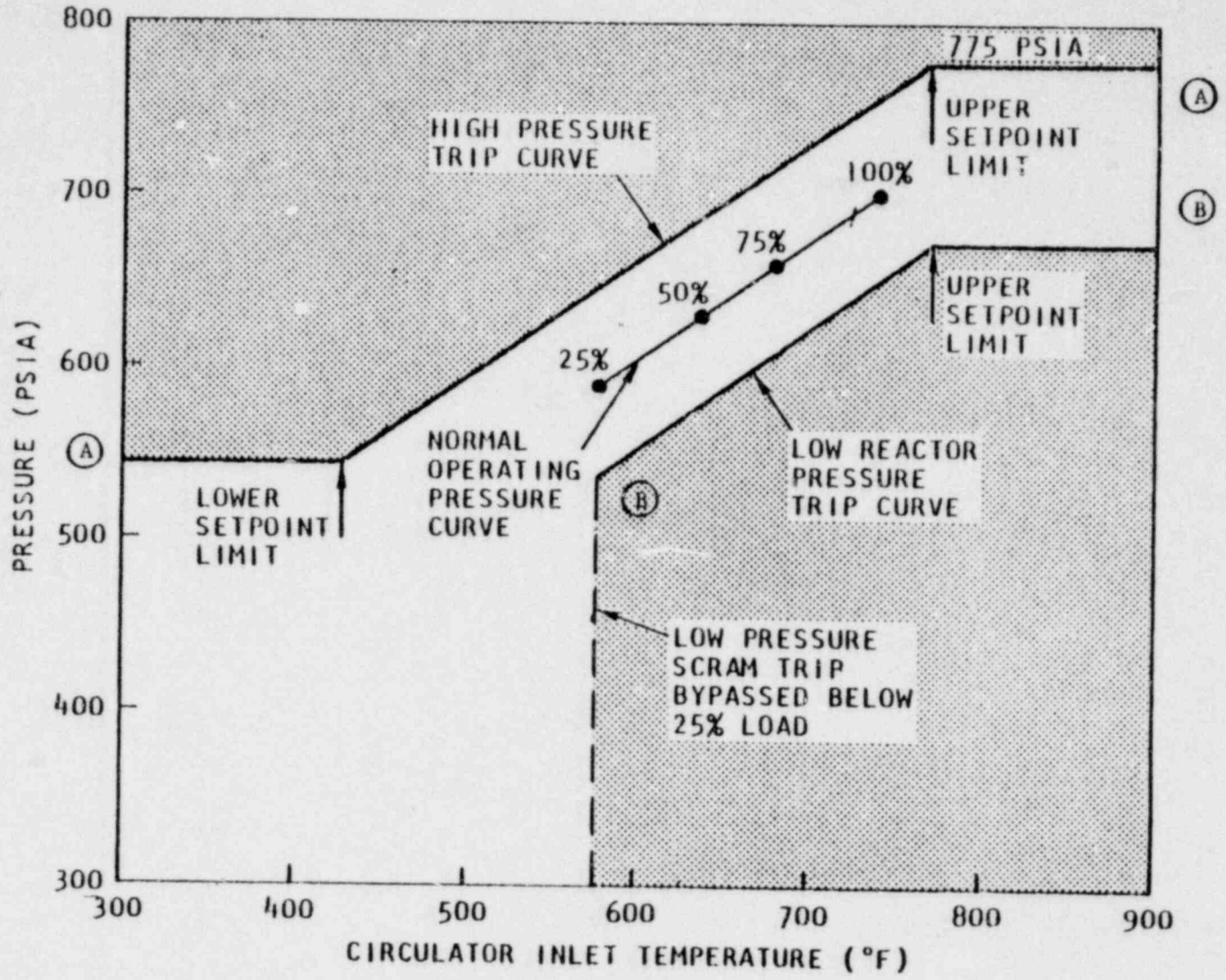


Fig. .1-14--Programmed reactor pressure high-low trip points

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